

CLAIMS

What is Claimed is:

- 5 1. A dump truck body comprising:
 a receptacle defined by a floor and, extending from the floor, first and
 second side walls on opposite sides of the floor, and a front wall extending between
 the side walls, wherein the first and second side walls have a first longitudinal edge
 distal from the floor and a second longitudinal edge proximal to the floor; and
10 at least one first sloped panel having a first longitudinal edge and a
 second longitudinal edge, wherein the first longitudinal edge of the at least one first
 sloped panel is pivotally connected at or adjacent the first longitudinal edge of the
 first side wall for pivotal movement between a raised position adjacent the first side
 wall and a lowered position extending angularly between the first side wall and the
15 floor.
2. The dump truck body according to claim 1 further comprising
 at least one second sloped panel having a first longitudinal edge and a second
 longitudinal edge, wherein the first longitudinal edge of the at least one second sloped
20 panel is pivotally connected at or adjacent the first longitudinal edge of the second
 side wall for pivotal movement between a raised position adjacent the second side
 wall and a lowered position extending angularly between the second side wall and the
 floor.
- 25 3. The dump truck body according to claim 2 wherein the at least
 one first sloped panel further comprises:
 a first longitudinal section extending from the first longitudinal edge of
 the at least one first sloped panel; and
 a second longitudinal section extending from the second longitudinal
30 edge of the at least one first sloped panel, wherein the first longitudinal section and
 the second longitudinal section are attached to each other with a repositioning
 connector.

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4. The dump truck body according to claim 3 wherein the at least one second sloped panel further comprises:

5 a first longitudinal section extending from the first longitudinal edge of the at least one second sloped panel; and

10 a second longitudinal section extending from the second longitudinal edge of the at least one second sloped panel, wherein the first longitudinal section and the second longitudinal section are attached to each other with a repositioning connector.

5. The dump truck body according to claim 4 wherein the repositioning connector is a hinge.

15 6. The dump truck body according to claim 4 wherein the repositioning connector is a sliding attachment.

20 7. The dump truck body according to claim 1 further comprising a longitudinally extending conveyor system structurally integrated into the floor between the first and second side walls, wherein the floor has at least one opening in alignment with the conveyor system.

25 8. The dump truck body according to claim 7 wherein the second longitudinal edge of the at least one first sloped panel is adjacent and in contact with the floor adjacent the longitudinally extending conveyor system when in the lowered position.

9. The dump truck body according to claim 1 further comprising a tailgate located on an opposite side of the floor from the front wall and extending between the first and second side walls.

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10. A dump truck comprising:
a longitudinally extending truck frame;

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a dump truck body pivotally mounted at a rear end thereof on the truck frame, wherein the dump truck body comprises:

5 a receptacle defined by a floor and, extending from the floor, first and second side walls on opposite sides of the floor, and a front wall extending between the side walls, wherein the first and second side walls have a first longitudinal edge distal from the floor and a second longitudinal edge proximal to the floor; and

10 at least one first sloped panel having a first longitudinal edge and a second longitudinal edge, wherein the first longitudinal edge of the at least one first sloped panel is pivotally connected at or adjacent the first longitudinal edge of the first side wall for pivotal movement between a raised position adjacent the first side wall and a lowered position extending angularly between the first side wall and the floor; and

15 a lift system connected between the truck frame and a forward end of the dump body.

11. The dump truck according to claim 10 wherein the dump truck body further comprises at least one second sloped panel having a first longitudinal edge and a second longitudinal edge, wherein the first longitudinal edge of the at least one second sloped panel is pivotally connected at or adjacent the first longitudinal edge of the second side wall for pivotal movement between a raised position adjacent the second side wall and a lowered position extending angularly between the second side wall and the floor.

25 12. The dump truck according to claim 11 wherein the at least one first sloped panel further comprises:

a first longitudinal section extending from the first longitudinal edge of the at least one first sloped panel; and

30 a second longitudinal section extending from the second longitudinal edge of the at least one first sloped panel, wherein the first longitudinal section and the second longitudinal section are attached to each other with a repositioning connector.

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13. The dump truck according to claim 12 wherein the at least one second sloped panel further comprises:

5 a first longitudinal section extending from the first longitudinal edge of the at least one second sloped panel; and

10 a second longitudinal section extending from the second longitudinal edge of the at least one second sloped panel, wherein the first longitudinal section and the second longitudinal section are attached to each other with a repositioning connector.

14. The dump truck according to claim 13 wherein the repositioning connector is a hinge.

15 15. The dump truck according to claim 13 wherein the repositioning connector is a sliding attachment.

20 16. The dump truck according to claim 10 further comprising a longitudinally extending conveyor system structurally integrated into the floor between the first and second side walls, wherein the floor has at least one opening in alignment with the conveyor system.

25 17. The dump truck according to claim 16 wherein the second longitudinal edge of the at least one first sloped panel is adjacent and in contact with the floor adjacent the longitudinally extending conveyor system when in the lowered position.

30 18. The dump truck according to claim 10 wherein the dump truck body further comprises a tailgate located on an opposite side of the floor from the front wall and extending between the first and second side walls.

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19. A dump truck body comprising:

a receptacle defined by a floor and, extending from the floor, first and second side walls on opposite sides of the floor, and a front wall extending between the side walls, wherein the first and second side walls have a first longitudinal edge distal from the floor and a second longitudinal edge proximal to the floor;

a longitudinally extending conveyor system structurally integrated into the floor between the first and second side walls, wherein the floor has at least one opening in alignment with the conveyor system; and

at least one first sloped panel having a first longitudinal edge and a second longitudinal edge, wherein the second longitudinal edge of the at least one first sloped panel is pivotally connected to the floor adjacent the longitudinally extending conveyor system for pivotal movement between a lowered position covering the conveyor system and a raised position extending angularly between the first side wall and the floor.

20. The dump truck body according to claim 19 further comprising at least one second sloped panel having a first longitudinal edge and a second longitudinal edge, wherein the second longitudinal edge of the at least one second sloped panel is pivotally connected to the floor adjacent the longitudinally extending conveyor system for pivotal movement between a lowered position covering the conveyor system and a raised position extending angularly between the second side wall and the floor.

21. The dump truck body according to claim 20 wherein the first longitudinal edge of the at least one first sloped panel is adjacent and in contact with the first longitudinal edge of the first side wall when in the raised position and wherein the first longitudinal edge of the at least one second sloped panel is adjacent and in contact with the first longitudinal edge of the second side wall when in the raised position.

22. The dump truck body according to claim 20 wherein the at least one first and second sloped panels are non-planar and have a recessed section over the conveyor system when in the lowered position.

5 23. The dump truck body according to claim 20 wherein the at least one first and second sloped panels are substantially planar with the floor when in the lowered position.

10 24. The dump truck body according to claim 19 further comprising a tailgate located on an opposite side of the floor from the front wall and extending between the first and second side walls.

25. A dump truck comprising:
a longitudinally extending truck frame;
15 a dump truck body pivotally mounted at a rear end thereof on the truck frame, wherein the dump truck body comprises:

a receptacle defined by a floor and, extending from the floor, first and second side walls on opposite sides of the floor, and a front wall extending between the side walls, wherein the first and second side walls have a first
20 longitudinal edge distal from the floor and a second longitudinal edge proximal to the floor;

a longitudinally extending conveyor system structurally integrated into the floor between the first and second side walls, wherein the floor has at least one opening in alignment with the conveyor system; and

25 at least one first sloped panel having a first longitudinal edge and a second longitudinal edge, wherein the second longitudinal edge of the at least one first sloped panel is pivotally connected to the floor adjacent the longitudinally extending conveyor system for pivotal movement between a lowered position covering the conveyor system and a raised position extending angularly between the
30 first side wall and the floor; and

a lift system connected between the truck frame and a forward end of the dump body.

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26. The dump truck according to claim 25 wherein the dump truck body further comprises at least one second sloped panel having a first longitudinal edge and a second longitudinal edge, wherein the second longitudinal edge of the at least one second sloped panel is pivotally connected to the floor adjacent the longitudinally extending conveyor system for pivotal movement between a lowered position covering the conveyor system and a raised position extending angularly between the second side wall and the floor.

27. The dump truck according to claim 26 wherein the first longitudinal edge of the at least one first sloped panel is adjacent and in contact with the first longitudinal edge of the first side wall when in the raised position and wherein the first longitudinal edge of the at least one second sloped panel is adjacent and in contact with the first longitudinal edge of the second side wall when in the raised position.

28. The dump truck according to claim 26 wherein the at least one first and second sloped panels are non-planar and have a recessed section over the conveyor system when in the lowered position.

29. The dump truck according to claim 26 wherein the at least one first and second sloped panels are substantially planar with the floor when in the lowered position.

30. The dump truck according to claim 25 wherein the dump truck body further comprises a tailgate located on an opposite side of the floor from the front wall and extending between the first and second side walls.

31. A dump truck body comprising:
a receptacle defined by a floor and, extending from the floor, first and second side walls on opposite sides of the floor, and a front wall extending between

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the side walls, wherein the first and second side walls have a first longitudinal edge distal from the floor and a second longitudinal edge proximal to the floor;

a longitudinally extending conveyor system structurally integrated into the floor between the first and second side walls, wherein the floor has at least one
5 opening in alignment with the conveyor system; and

at least one first sloped panel having a first longitudinal edge and a second longitudinal edge, wherein the first longitudinal edge of the at least one first sloped panel is pivotally connected at or adjacent the first longitudinal edge of the first side wall or to the floor adjacent the longitudinally extending conveyor system
10 for pivotal movement between a sloped position extending angularly between the first side wall and the floor and a non-sloped position.

32. The dump truck body according to claim 31 further comprising at least one second sloped panel having a first longitudinal edge and a second
15 longitudinal edge, wherein the first longitudinal edge of the at least one second sloped panel is pivotally connected at or adjacent the first longitudinal edge of the second side wall or to the floor adjacent the longitudinally extending conveyor system for pivotal movement between a sloped position extending angularly between the second side wall and the floor and a non-sloped position.

20 33. The dump truck body according to claim 32 wherein the at least one first sloped panel further comprises:

a first longitudinal section extending from the first longitudinal edge of the at least one first sloped panel; and
25 a second longitudinal section extending from the second longitudinal edge of the at least one first sloped panel, wherein the first longitudinal section and the second longitudinal section are attached to each other with a repositioning connector.

30 34. The dump truck body according to claim 33 wherein the at least one second sloped panel further comprises:

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a first longitudinal section extending from the first longitudinal edge of the at least one second sloped panel; and

a second longitudinal section extending from the second longitudinal edge of the at least one second sloped panel, wherein the first longitudinal section and the second longitudinal section are attached to each other with a repositioning connector.

35. The dump truck body according to claim 34 wherein the repositioning connector is a hinge.

36. The dump truck body according to claim 34 wherein the repositioning connector is a sliding attachment.

37. The dump truck body according to claim 31 further comprising a tailgate located on an opposite side of the floor from the front wall and extending between the first and second side walls.

38. A dump truck comprising:
a longitudinally extending truck frame;
a dump truck body pivotally mounted at a rear end thereof on the truck frame, wherein the dump truck body comprises:

a receptacle defined by a floor and, extending from the floor, first and second side walls on opposite sides of the floor, and a front wall extending between the side walls, wherein the first and second side walls have a first longitudinal edge distal from the floor and a second longitudinal edge proximal to the floor;

a longitudinally extending conveyor system structurally integrated into the floor between the first and second side walls, wherein the floor has at least one opening in alignment with the conveyor system; and

at least one first sloped panel having a first longitudinal edge and a second longitudinal edge, wherein the first longitudinal edge of the at least one first sloped panel is pivotally connected at or adjacent the first longitudinal edge of

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the first side wall or to the floor adjacent the longitudinally extending conveyor system for pivotal movement between a sloped position extending angularly between the first side wall and the floor and a non-sloped position; and

5 a lift system connected between the truck frame and a forward end of the dump body.

39. The dump truck according to claim 38 wherein the dump truck body further comprises at least one second sloped panel having a first longitudinal edge and a second longitudinal edge, wherein the first longitudinal edge of the at least one second sloped panel is pivotally connected at or adjacent the first longitudinal edge of the second side wall or to the floor adjacent the longitudinally extending conveyor system for pivotal movement between a sloped position extending angularly between the second side wall and the floor and a non-sloped position.

40. The dump truck according to claim 39 wherein the at least one first sloped panel further comprises:
a first longitudinal section extending from the first longitudinal edge of the at least one first sloped panel; and

a second longitudinal section extending from the second longitudinal edge of the at least one first sloped panel, wherein the first longitudinal section and the second longitudinal section are attached to each other with a repositioning connector.

41. The dump truck according to claim 40 wherein the at least one second sloped panel further comprises:

a first longitudinal section extending from the first longitudinal edge of the at least one second sloped panel; and

a second longitudinal section extending from the second longitudinal edge of the at least one second sloped panel, wherein the first longitudinal section and the second longitudinal section are attached to each other with a repositioning connector.

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42. The dump truck according to claim 41 wherein the repositioning connector is a hinge.

5 43. The dump truck according to claim 41 wherein the repositioning connector is a sliding attachment.

44. The dump truck according to claim 38 wherein the dump truck body further comprises a tailgate located on an opposite side of the floor from the front wall and extending between the first and second side walls.

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